

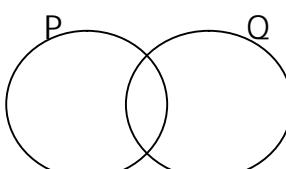
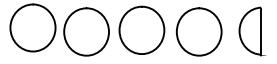
#CREATIVE PRINTERS

The Path to
Success

MATHEMATICS

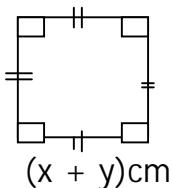
*NOTES, SCHEMES, WORKBOOKS
EXAMS, ETC
0703745068 / 0785681207*

SECTION A: (40 MARKS)

- | | |
|---|--|
| <p>1. Multiply:</p> $\begin{array}{r} 3 & 5 \\ \times & 2 \\ \hline \end{array}$ | <p>8. Find the sum of the missing numbers in the sequence.
2, 3, 5, 7, 11, _____, _____</p> |
| <p>2. Solve the equation below.</p> $3p + 4 = 19$ | <p>9. Express 2.5kg to grams.</p> |
| <p>3. Shade the region (P - Q) in the diagram below.</p>  | <p>10. An examination started at 7:30 a.m. and ended at 9:15 a.m. How long did the exam take?</p> |
| <p>4. Find the square of $6\frac{1}{4}$</p> | <p>11. Work out: $-10 - +7$</p> |
| <p>5. If  represents 10 oranges, how many oranges are represented by
</p> | <p>12. If set P = {a, b, c}. How many subsets has set P?</p> |
| <p>6. Round off 6.09 to the nearest tenths.</p> | <p>13. Use distributive property to work out.
$(4 \times 2.5) + (6 \times 2.5)$</p> |
| <p>7. Using a ruler, a pencil and a protractor, draw an angle of 45°.</p> | |

14. Find the range of the following numbers: 5, 1, 4, 6, 9, 3, 8, 2

15. Find the perimeter of the figure below.

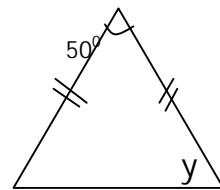


16. Write CXC in Hindu – Arabic numerals.

17. Musisi has a bundle of two thousand shilling notes numbered consecutively from XY562201 to XY562300. How much money does he have?

18. How many $\frac{1}{4}$ litre bottles can be obtained from 4 litres of milk?

19. The figure below is an isosceles triangle. Find the size of angle y .



20. Find the smallest number when divided by 8 or 12 leaves remainder 3.

SECTION B: (60 MARKS)

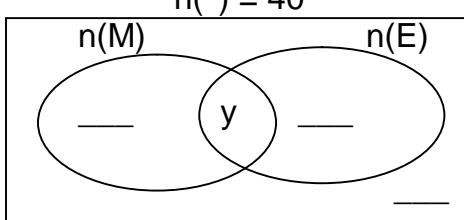
21a) Work out:
$$\frac{0.24 + 0.66}{0.3 \times 0.3}$$
 (3 marks)

(b) Simplify:
$$\frac{1}{4} - \frac{1}{4} + \frac{3}{4}$$
 (3 marks)

22. In a class of 40 pupils, 22 enjoy Maths (M), 24 enjoy English (E), y pupils like both while eight enjoy other subjects.

(a) Represent the above information on the Venn diagram below.

(3 marks)



(b) How many pupils enjoy both? (2 marks)

23. A costa carries 35 passengers when full to its capacity.

(a) How many passengers will it transport in 16 trips? (2 marks)

(b) If the bus fare is shs. 7500 per person, how much money will the conductor collect per trip?

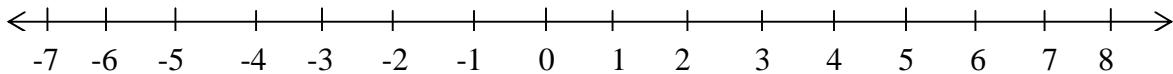
(2 marks)

24a) Sofia is 5 years younger than Amina. Their total age is 19 years. Find Amina's age. (2 marks)

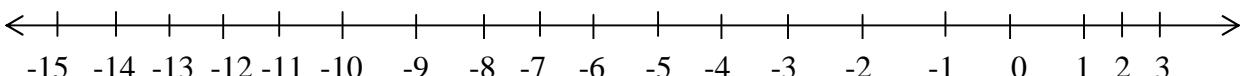
(b) Solve: $1\frac{1}{2}x - 7 = 8$ (3 marks)

25. Use the number lines below to work out: (2 marks each)

(a) ${}^{\text{-}}6 + {}^{+}8 = \underline{\hspace{2cm}}$



(b) ${}^{+}4 \times {}^{\text{-}}3 = \underline{\hspace{2cm}}$

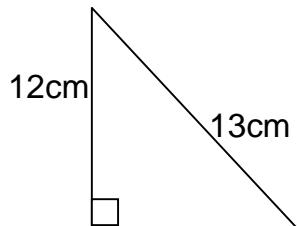


26. Using a ruler, a pencil and a pair of compasses only, construct a regular quadrilateral in a circle of radius 4cm. (5 marks)

27. **Study the diagram below and answer the questions that follow.**

(a) Find its area.

(3 marks)



(b) Find its perimeter.

(2 marks)

28a) Find the sum of the place value of 3 and the value of 5 in the number 2503.

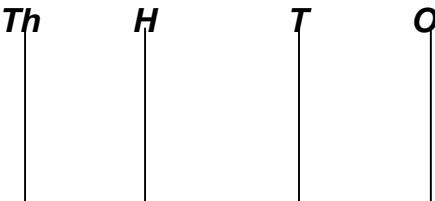
(2 marks)

(b) Expand 78.25 using powers.

(1 mark)

(c) Show the number 4201 on the abacus below.

(2 marks)



29. Paul went to the market and bought the following items:-

1 $\frac{1}{2}$ kg of rice at sh. 3600 per kg.

3 bars of soap at sh. 4200.

500 grams of salt at sh. 1000 per kg.

2kg of sugar at sh. 3200 per kg.

(a) How much money did he spend altogether?

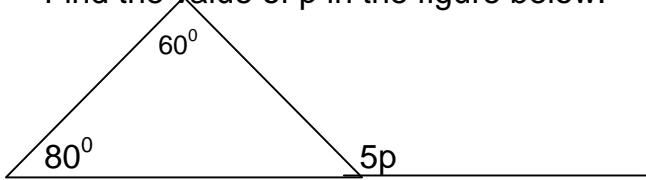
(4 marks)

(b) If he went with sh. 20000, what was his balance after paying for all the items?

(1 mark)

- 30a) If y^0 and 80^0 are co-interior angles on a parallel line, what is the value of y ?
(2 marks)

- (b) Find the value of p in the figure below. *(2 marks)*



- 31a) A school had 500 books in the library last year. This year, the number has increased by 20%. How many books are in the library this year? *(3 marks)*

- (b) Babra and Hope shared sh. 40000 in a ratio of 3:7 respectively. How much did each get?
(3 marks)

32. A farmer divided his land as follows:- $\frac{6}{20}$ of the land for food crops, $\frac{1}{2}$ for cash crops and $\frac{1}{5}$ for pasture. Use the above information to draw an accurate pie chart.
(6 marks)

SECTION A: 40 MARKS

Answer **all** questions in this Section

Questions **1** to **20** carry two marks each

1. Workout. $191_{\text{ten}} \times 14_{\text{ten}}$.

.....
.....

3. Given that Set S = {first 5 even numbers} and
Set V = {integers between -5 and $+5$ }. Find $n(S \cap V)$.

4. Solve for m: $\frac{2}{m} = \frac{3}{6}$.

5. Find the missing numbers in the sequences below:

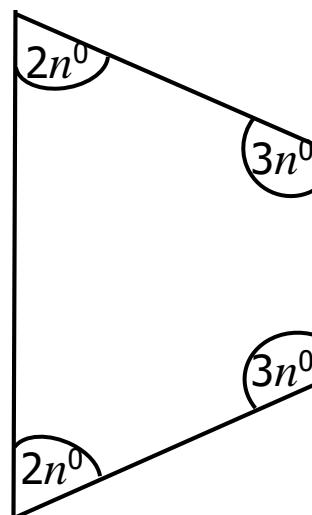
36, 49, 64, , 100

1, 8, , 64, 125

6. Workout:

kg	g
3	723
<u>+ 4</u>	<u>345</u>

7. Find the value of n in the figure below.

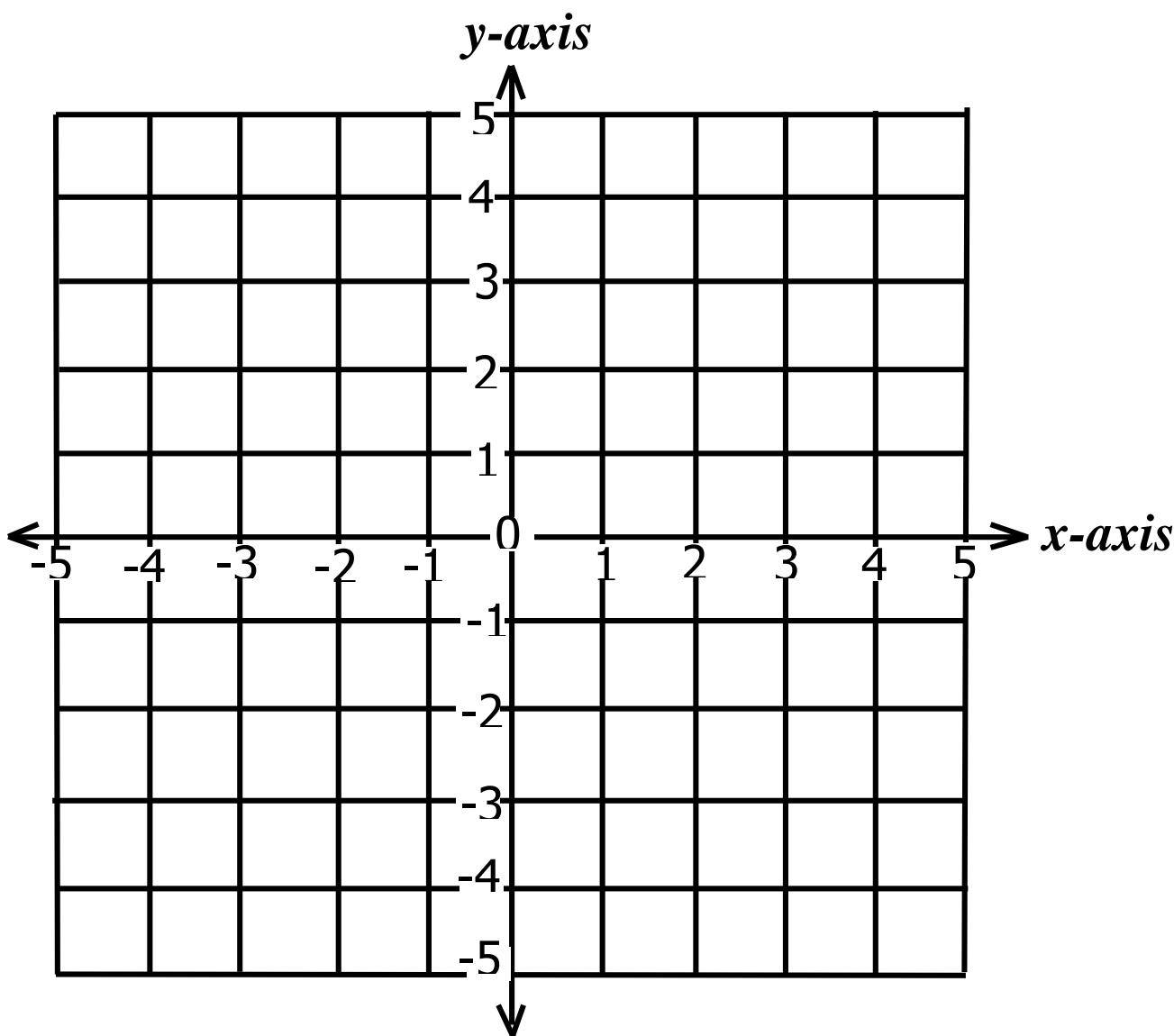


8. Musa went to sleep at 1930hrs and did not wake up until 0830hrs. For how long did Musa sleep?
9. A tourist left town K and travelled 55km westwards to town L. He then turned on a bearing of 215° and travelled to town M which is a distance of 65km. Using a pencil, a ruler and a protractor only. Draw a sketch diagram to show the tourist's journey.

10. If $a = 49$, $b = 39$ and $c = 61$. What is the value of $(a \times b) + (c \times a)$ using distributive property?

11. George bought 120 shares from Surekey Bank at a simple interest of 30% per year. Find his total interest after $3\frac{1}{2}$ years if each share costs Sh.60,000.

12. On the graph below, plot the points, A($-2, +3$), B($+5, +3$), C($-2, -1$) and D($+1, -1$). Then join them to form a right angled trapezium.

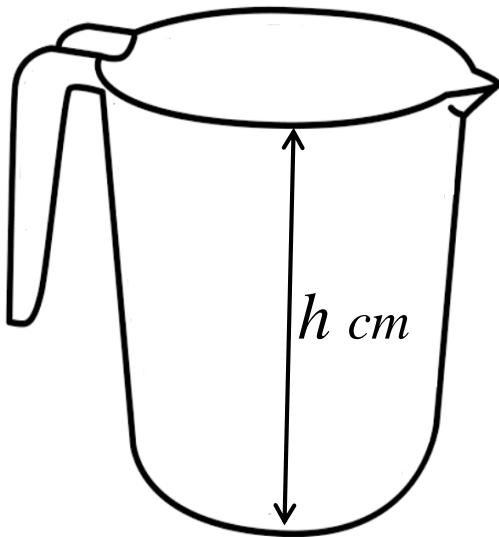


13. Express $\frac{9}{11}$ as a recurring decimal.
14. The Lowest Common Multiple (LCM) of x and y is 48 and their Greatest Common Factor (GCF) is 8. Find the value of y if $x = 16$.
15. The ratio of boys to girls in a class is 5:3. If there are 20 more boys than girls in the class, find the total number of pupils in the class.
16. Mary bought 8 dresses each at Sh.7,000. How much money did she spend on 6 dresses?



17. The diagrams below show two different containers which hold the same amount of milk when completely full. Container **Z** has a base area of 154cm^2 and a height of 28cm.

Container Y



Container Z



Calculate the height (h) of container **Y** if it has a base area of 308cm^2 .
(Use π as $\frac{22}{7}$)

18. Given that 1 US dollar (\$) costs Uganda shillings (Ug.sh) 3,672 and 1 Kenyan shilling (Ksh) costs Ug.sh 36, find the cost of 1 US dollar in Kenya shillings.

19. Solve for p: $2p + 4 = 2$ (finite 6)

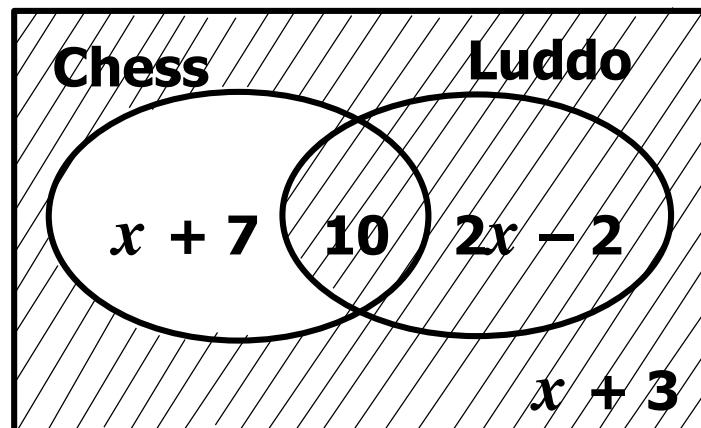
20. Alinda's stride is 1.1m long. How many strides will Alinda make to cover a distance of 33km?

SECTION B: 60 MARKS

Answer **all** questions in this section

Marks for each question are indicated in brackets.

21. Study the Venn diagram below and use it to answer the questions that follow.



- (a) Describe the unshaded region in the above Venn diagram. (01 Mark)
- (b) Given that the number of members represented in the shaded region of the Venn diagram doubles that in the unshaded. How many pupils played only one game? (03 Marks)

22. (a) Find the value of m if $m^2 = 71_{\text{nine}}$ (02 Marks)

(b) Express 134_{five} as a base three numeral. (03 Marks)

23. Kayongo, Sserugo and Opio are running a 10,000 metre race, Kayongo completes his first lap after 60 seconds, Opio completes his first lap after 75 seconds while Sserugo completes his after 90 seconds.

(a) When will they all be at the starting point together again if running at a constant speed throughout the race? (02 Marks)

(b) At what speed is Sserugo running in Kilometers per hour? (03 Marks)

24. (a) What number has been expanded to give; (03 Marks)

$$(3 \times 10^4) + (9 \times 10^1) + (4 \times 10^{-2}) + (2 \times 10^{-3})?$$

(b) Workout the product of the value of 3 and the place value of 2 in the above expanded number. (02 Marks)

25. Okoth scored the following marks in his homework exercises.

2, 5, 7, 3, 10,

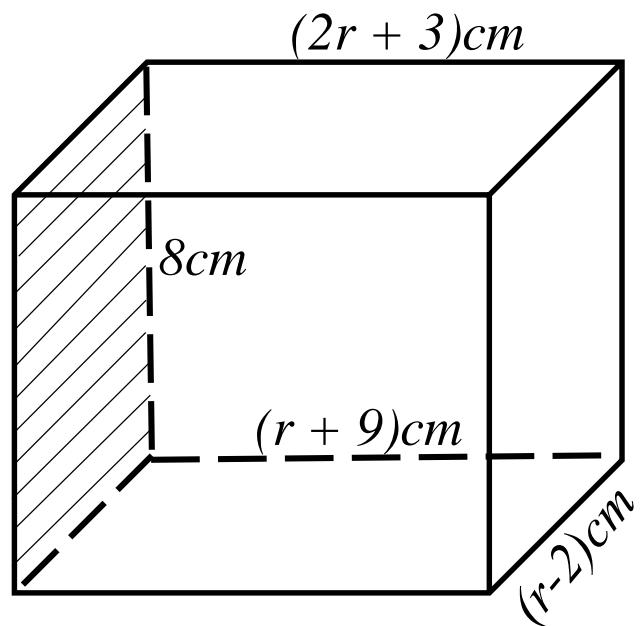
7, 11, 8, 3

(a) Find his median mark. (01 Mark)

(b) Find the mean mark of the homework exercises. (02 Marks)

(c) Find the probability that Okoth scored a mark above his mean mark. (02 Marks)

26. Study the figure below and use it to answer the questions that follow.



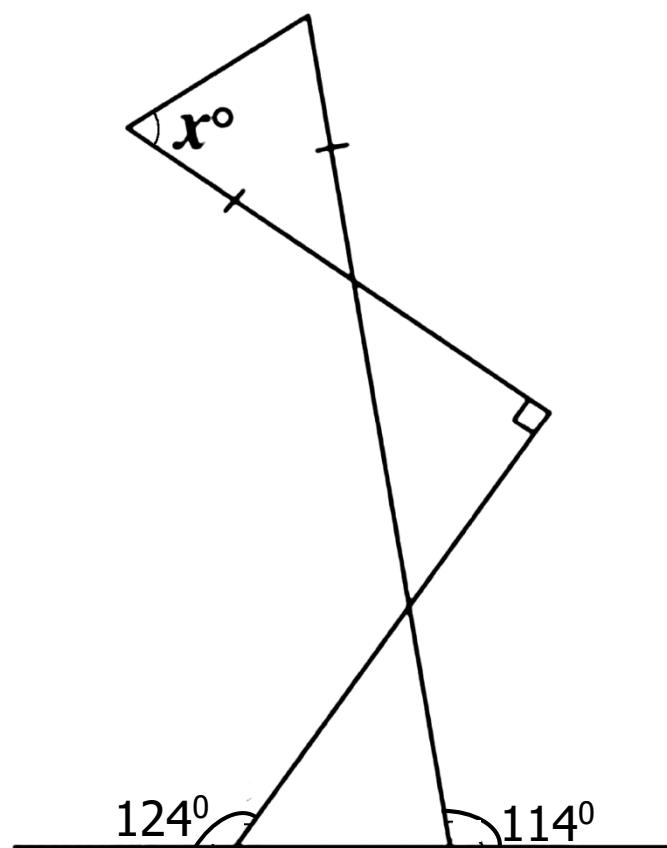
- (a) Calculate the value of r in the above figure. (02 Marks)
- (b) Workout the area of the shaded face on the above figure. (02 Marks)
- (c) Workout its volume in cubic centimetres. (02 Marks)

27. (a) Using a ruler, a pencil and a pair of compasses only, construct a rhombus **SRVY** where line **SR** = 8cm, angle **SRV**= 120° . (04 Marks)

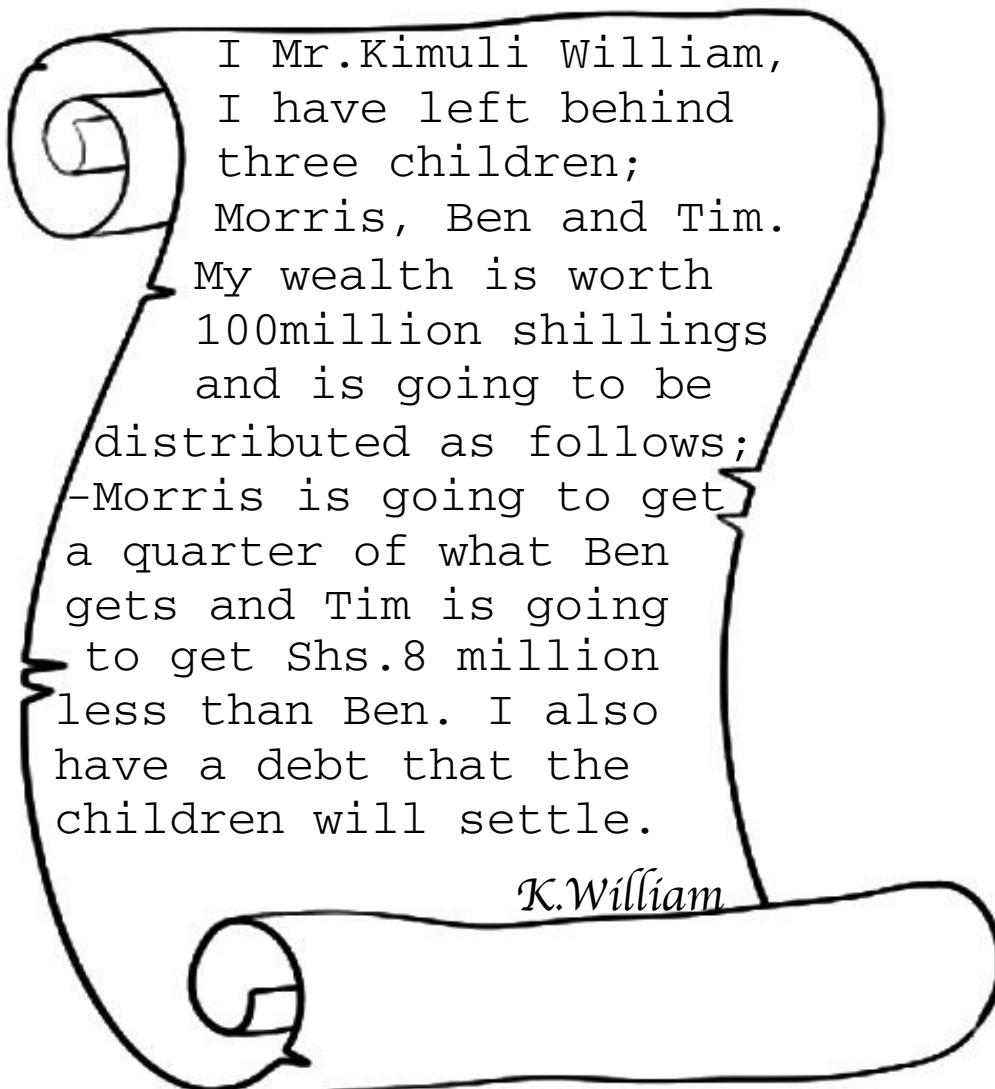
(b) Measure the length of diagonal **SV**.cm (01 Mark)

28. (a) The interior angle of a regular polygon is 36^0 more than its exterior angle. Name the polygon. (03 Marks)

- (b) In the figure below, find the value of x . (03 Marks)



29. Below is a copy of Mr.William's will left behind before his death. Read it carefully and help distribute his wealth among his children.



- (a) How much wealth did each child receive as his share? (03 Marks)
- (b) If each child is to contribute 10% on his share to settle their father's debt, how much was the debt? (02 Marks)

30. The table below shows a ferry's journey across different Islands and ports on Lake Victoria. Study it carefully and answer the questions that follow.

Island or Port	Arrival Time	Departure Time	Fares (Shs)
Luzira	0900 hrs
Kome	1230 hrs	1305 hrs	3,500
Buvuma	1545 hrs	1620 hrs	1,800
Buyange	1740 hrs	1800 hrs	1,200
Bukasa	1910 hrs	1940 hrs	1,500
Kalangala	2125 hrs	2,200

- (a) At what time did the ferry arrive at Buvuma Island in 12-hour clock system? (01 Mark)
- (b) How many minutes did it take the ferry to travel from Luzira to Bukasa? (02 Marks)
- (c) How much did Ms.Sarah with her three friends pay for a trip from Kome to Kalangala? (02 Marks)



31. Godfrey went shopping and bought the following items.

2 bars of soap for Sh.2,800 each.

1½kg of sugar for Sh.4,800 per kg.

1 tin of Blue Band for Sh.4,500.

$\frac{3}{4}$ kg of beef for Sh.10,500.

(a) Find the cost of a kilogram of beef. (02 Marks)

(b) Calculate Godfrey's total expenditure. (03 Marks)

32. A water tank is $\frac{2}{3}$ full of water. When 600 litres of water are added, the tank

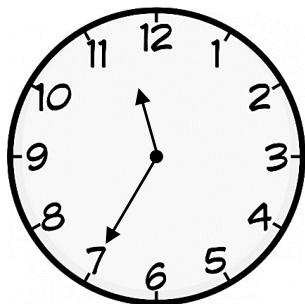
becomes $\frac{5}{6}$ full. How many litres of water does it hold when it is $\frac{3}{4}$ full?

(04 Marks)

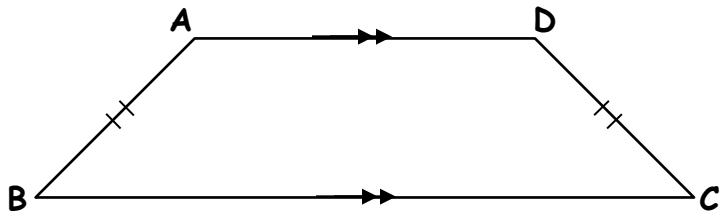


SECTION A (40marks)

1. Add: $34 + 53$
2. Given set $R = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$ $W = \{\text{all square numbers in set } R\}$. Find $n(W)$
3. Simplify: $\frac{3.6 - 0.6}{0.5}$
4. Find the next number in the sequence $23, 19, 17, 13, 11, \underline{\hspace{2cm}}$
5. Express the morning time shown on the clock face below in 24hr clock system.



6. How many lines of folding symmetry has the figure below.



7. Given that $b=4$, $a=5$. Find the value of $b(a - b)^2$

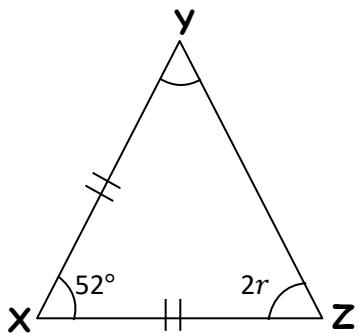
8. Using a ruler, pencil and a pair of compasses only construct an angle of 30° at point M.



9. Workout for x below: $3 - \underline{4} = \underline{\hspace{1cm}}$ (finite 5)

10. Solve: $8p = 3p + 45$

11. Workout the value of r in the figure below:



12. Simplify: $2^{3p} = 64$.

13. Factorise completely $12x^3y - 8y^2x$

14. Round off 49.97 to the nearest tenths.

15. How many 300ml are in 12 litres?

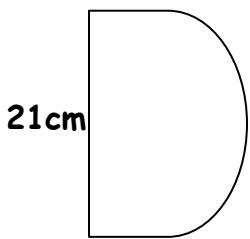
16. Simplify: $\frac{3^4 \times 3}{3^5}$

17. The cost of 1 US dollar is Ug.sh.1250. How many dollars would Tendo buy with Ug.sh. 25,000?

18. Solve: $2 + \frac{x}{12} = 6$

19. Given that set M has 4 subsets, find the number of elements it has.

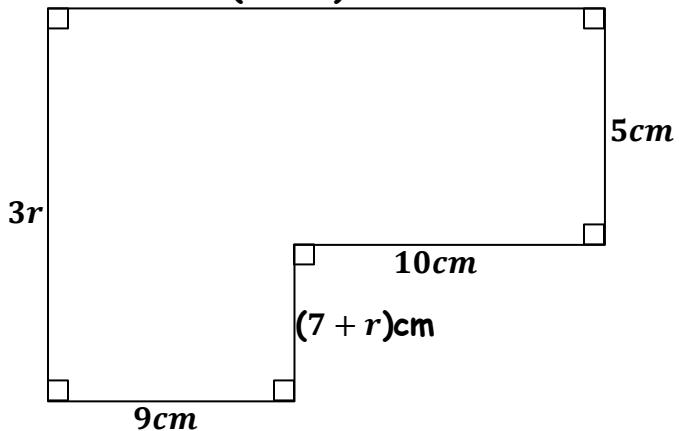
20. Find the perimeter of the figure below:



SECTION B(60marks)

21. Use the figure below to answer questions that follow:

$$(4t + 3)\text{cm}$$



(a) Find the value of r .

(2marks)

(b) Calculate the value of t .

(1mark)

(c)Find its area.

(3marks)

22. Obisa has a radio which uses 18-volt batteries. Each battery has 1.5 volts.

(a)How many batteries does he need to use his radio?

(3marks)

(b) Each pair of batteries costs sh. 1500. How much does he need for his radio? (2marks)

23. Azizi's poultry farm produces eggs equivalent to the number expanded below per week.

$$(8 \times 10^2) + (2 \times 10^1) + (5 \times 10^0)$$

(a)How many eggs does he produce per week?

(2marks)

(b) If he sells each tray for sh. 7000. How much money does he earn per week? *(2marks)*

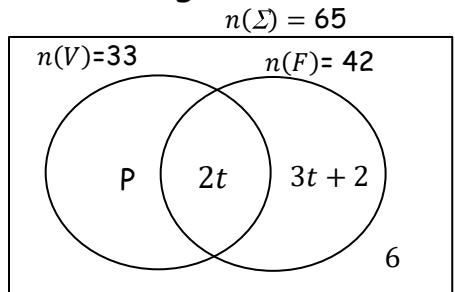
24. (a) Simplify: $\frac{3.6 \times 2.4}{4.8 \times 1.2}$ *(3marks)*

(b) Express $2\frac{1}{8}$ as a decimal fraction. *(2marks)*

25. (a) The centre angle of a regular polygon is 120° . Name the polygon *(3marks)*

(b) Calculate the interior angle sum of the polygon. *(2marks)*

26. Use the Venn diagram to answer the questions below.



(a) Find t .

(2marks)

(b) Calculate the value of P .

(2marks)

(c) Workout: $n(V \cup F)^T$

(1mark)

27. (a) Workout: $\frac{2}{3} + \frac{1}{2} + \frac{3}{4}$

(2marks)

(b) The number of pupils in Pooti Junior School increased by $x\%$ from 800 pupils to 960. Find the value of x . *(3marks)*

28. Namuga went with a twenty thousand shillings note and bought the following items:

2kg of sugar at sh. 3800 per kg.

$1\frac{1}{2}$ kg of salt at sh.600 per kg.

2 bars of soap for sh.4000.

(a) How much did she pay for all the items if she was given a discount of 10%?
(3marks)

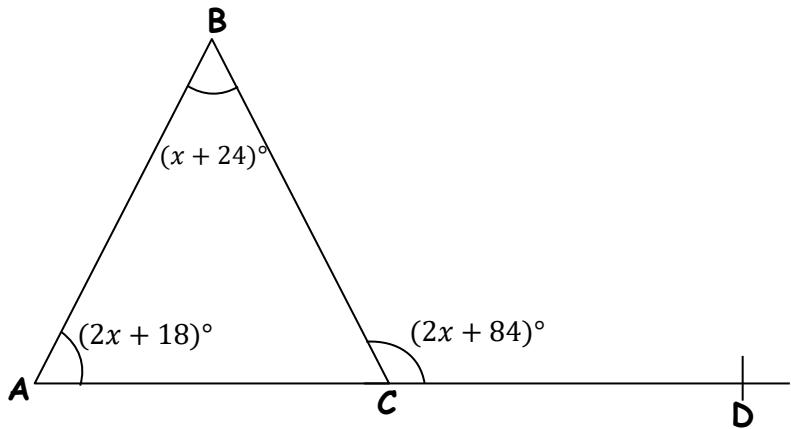
(b) Find his change after paying for all items. *(2marks)*

29. (a) Add: $0.79 + 4 + 13.6$ *(2marks)*

(b) Multiply: 479×32

(2marks)

30. Use the figure to answer.



(a) Find x .

(3marks)

(b) Find angle ACB .

(2marks)

31. (a) The perimeter of a rhombus is 52cm, one of the diagonals is 10cm. Find the length of the other diagonal. (2marks)

(b) Calculate its Area. (3marks)

32. Town R is 80km west of town P and town T is 60km south of town P.

(a) Draw a sketch to show the three towns. (1mark)

(b) A motorist moved from town R to T via town P. Using a scale of 1cm to represent 20km draw an accurate diagram to show his movement. (3marks)

(c) Find the direct distance from R to T. (1mark)

(d) Find the bearing of T from R. *(1mark)*

END

SECTION A: (40 MARKS)*Answer **all** questions in this section**Questions **1** to **20** carry two marks each*

1- Workout: $33 \div 11$

2- Simplify: $\frac{3}{4} \div 1 \frac{1}{4}$

3- Simplify: $3k - 7d + 2k + 5d$

4- Write 5400 in standard form

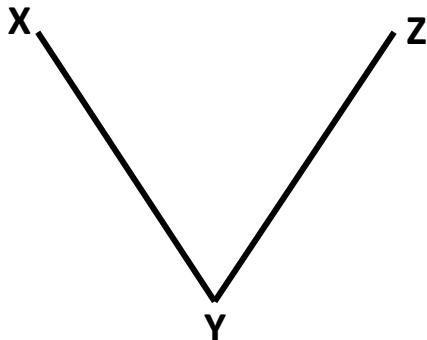
5- Find the next number in the sequence;

 $-1, -3, -6, -11, -18, \underline{\hspace{2cm}}$ 

6- Solve for m: $7 + \frac{2}{5}m = 11$

7- Round off 9.97 to the nearest tenth.

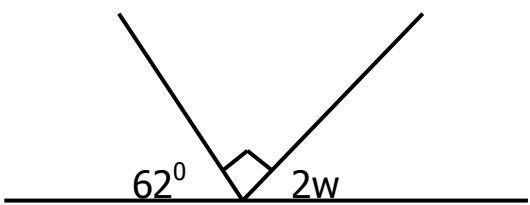
8- Using a pair of compasses, ruler and a pencil bisect the angle X Y Z below.



9- Subtract:

$$\begin{array}{r} 132_{\text{five}} \\ - 23_{\text{five}} \\ \hline \end{array}$$

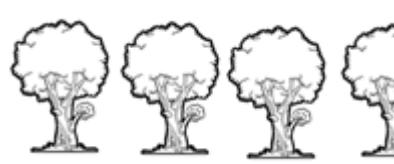
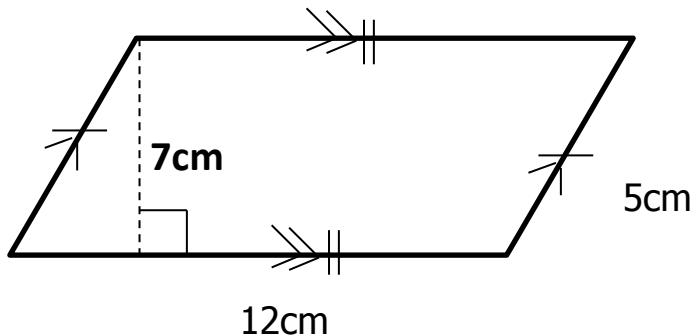
10- Find the value of w in the figure below.



11- Express 2.2727..... as a common fraction.

12- How many packets of 200ml of cooking oil can be got from $1\frac{4}{5}$ litres of cooking oil?

13- Find the area of the figure below.



14- Given that represents 21 trees. How many such pictures will represent 18 trees?

15- Calculate the number of elements in a set with 7 proper subsets.

- 16- Express 10:45p.m in a 24hour clock system.
- 17- The ratio of female to male teachers in a school is 3:2 respectively. There are 7 less male teachers than female teachers in the school. How many teachers are in the school?
- 18- A trader sold a shirt at sh. 7,000 making a profit of 40%. How much did the trader buy the shirt?
- 19- Mutebi borrowed sh. 400,000 from a saving group which gives an interest rate of 15%p.a. Calculate the simple interest he paid after 9 months.
- 20- A bus covered a distance of 275km in 165minutes. Calculate the distance the bus had covered in 2 hours at the same speed.



SECTION B:60 MARKS

*Answer **all** questions in this section*

Marks for each question are indicated in brackets

21- Change 1101_{two} into a ternary base.

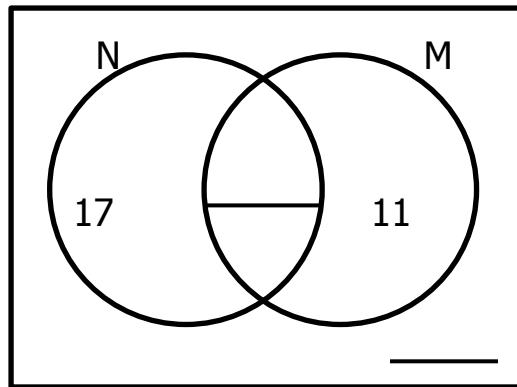
(04marks)

22- In a group of 43 pupils, 17 enjoy listening to news (N) only and 11 enjoy music (M) only.

(a) Complete the venn diagram below if those who enjoy both music and news are twice those who are not interested in any of the two.

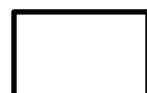
$$n(\Sigma) = 43$$

(02marks)



(b) Find the number of pupils who enjoy music.

(03marks)



23- Viola went to the shop and bought the items as shown in the table below. She remained with sh. 4800 as change.

(a) Complete the table below.

(04marks)

Items	Quantity	Unit cost	Amount
Sugar	_____ Kg	Sh.5,000	Sh.7,500
Salt	500g	Sh.1,400@kg	Sh. _____
Soap	2 bars	Sh. _____	Sh. 7,000
TOTAL EXPENDITURE			Sh. _____

(b) How much did she go with?

(01mark)

24- A certain school bought 50 cartons of milk. Each carton contained 21 packets of 200ml each. If the cost of a litre was sh. 3,000. How much did the school pay for all the cartons of milk?

(04marks)



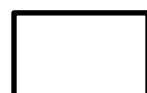
25- The table below shows the eggs collected by five boys. Study it carefully and answer the questions that follow.

Dan	Tom	Alex	Sam	Peter
5	7	m	8	6

- (a) How many eggs were collected by Alex if their average number of eggs collected was 6? **(03marks)**

- (b) Work out their median number of eggs. **(01mark)**

26- The interior angle of a regular polygon is three times the exterior angle. Calculate the interior angle sum of the polygon. **(05marks)**



27- ABC is a right angled triangle where line AB = 8cm and line AC = 5cm.

The right angle is at point A.

- (a) Using a pair of compasses, ruler and a pencil only, construct the triangle ABC. **(04marks)**

- (b) Find the area of the figure constructed above.

(02marks)

28- During a Sunday service, $\frac{5}{7}$ of the congregation were females and the rest were males. If $\frac{1}{4}$ of the males were boys and 60 more females than males attended the service, how many children attended the service if 40% of the females were girls? **(06marks)**

29- In a market, the cost of a watermelon is sh. $(h+300)$. The cost of a pineapple is sh.700 less than the cost of a watermelon. Martha paid sh. 11,300 for two watermelons and one pineapple. How much was the cost of a pineapple?

(04 marks)

30- Two taps P and Q were connected on a water tank. Tap P turned on alone took Y minutes to fill the tank while tap Q turned on alone took 8 minutes to draw water from the same tank.

One day, the tank was 75% full of water and all the taps were left open. It took 2 minutes to fill the remaining part of the tank to its full capacity.

(a) How long does tap P turned on alone take to fill the same empty tank?

(04 marks)

(b) Calculate the capacity of the tank if the remaining part of the tank to be filled was 240litres.

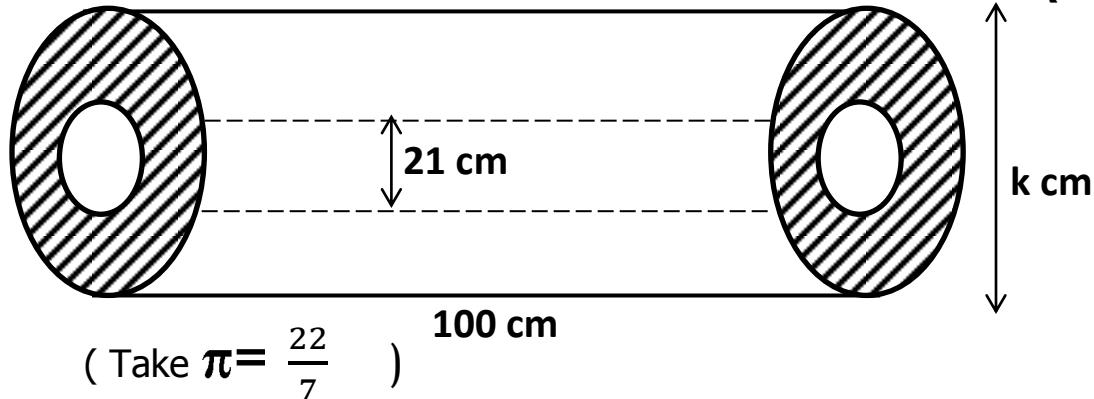
(02marks)



31- The figure below is a metallic hollow pole. The volume of the metal used to make the pole is $103,950\text{cm}^3$.

Find the value of k.

(06marks)

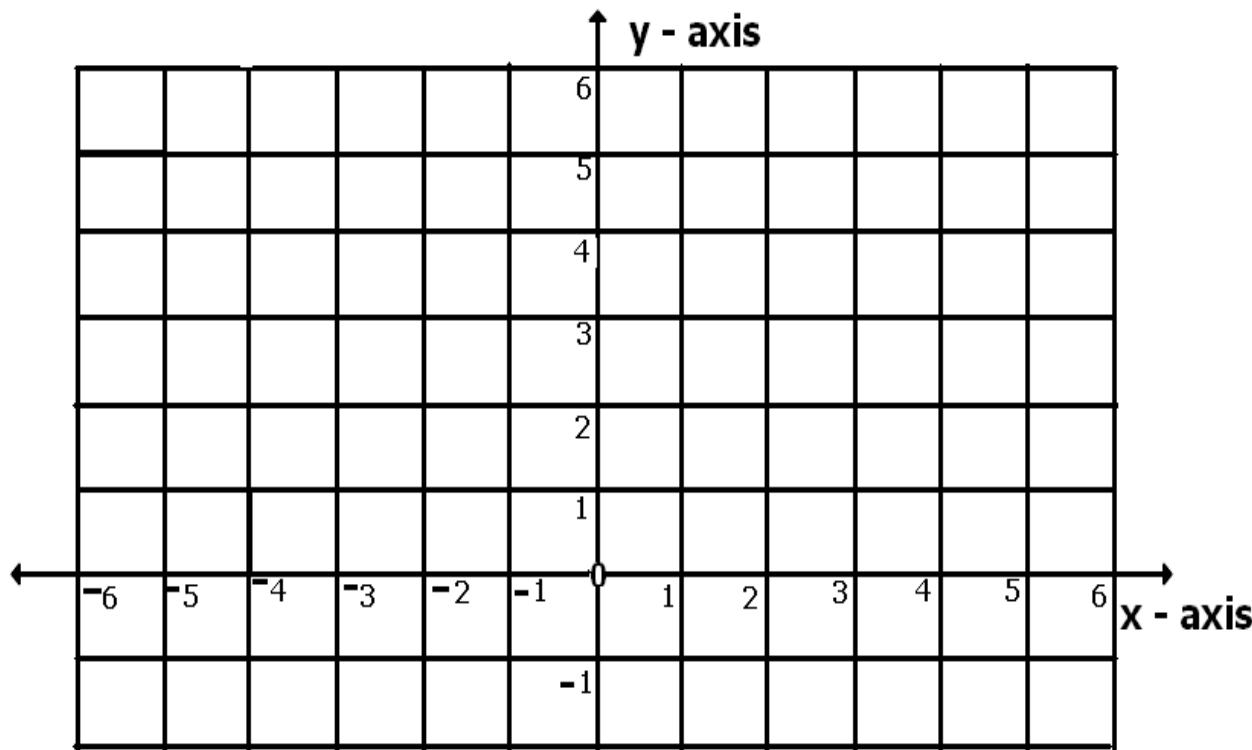


$$(\text{Take } \pi = \frac{22}{7})$$

32- Abbey, Bonny, Cathy and Dina stood at the coordinates; (-1, 3), (5, 3), (2,0) and (-4, 0) respectively.

A string was connected from Abby to Bonny, Bonny to Cathy, Cathy to Dina and finally from Dina to Abbey.

Show the four pupils and the connection of the string on the coordinate graph below. **(05marks)**



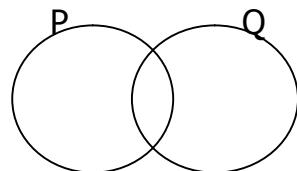
END

SECTION A: (40 MARKS)

1. Multiply: 3 4
 x 2

2. Solve the equation below.
 $3p + 4 = 19$

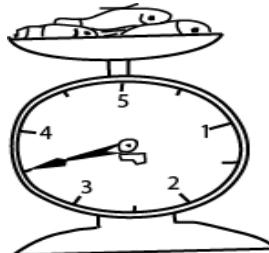
3. Shade the region $(P - Q)$ in the diagram below.



4. Find the square of $6\frac{1}{4}$.

5. If represents 10 oranges, how many oranges are represented by

6. A kilogram of fish is sold at Sh. 2,000. How much will Musa pay for the amount shown on the weighing scale?



7. Using a ruler, a pencil and a protractor, draw an angle of 45° .

8. Find the sum of the missing numbers in the sequence.

2, 3, 5, 7, 11, _____, _____

9. Express 2.5kg to grams.

10. An examination started at 7:30 a.m. and ended at 9:15 a.m. How long did the exam take?

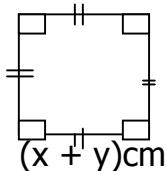
11. Work out: $-10 - +7$

12. If set $P = \{a, b, c\}$. How many subsets has set P ?

13. Use distributive property to work out.
 $(4 \times 2.5) + (6 \times 2.5)$

14. Find the range of the following numbers: 5, 1, 4, 6, 9, 3, 8, 2

15. Find the perimeter of the figure below.

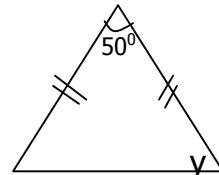


16. Write CXC in Hindu – Arabic numerals.

17. Musisi has a bundle of two thousand shilling notes numbered consecutively from XY562201 to XY562300. How much money does he have?

18. How many $\frac{1}{4}$ litre bottles can be obtained from 4 litres of milk?

19. The figure below is an isosceles triangle. Find the size of angle y .



20. Find the smallest number when divided by 8 or 12 leaves remainder 3.

SECTION B: (60 MARKS)

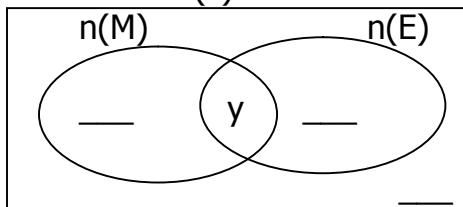
21a) Work out: $\frac{0.24 + 0.66}{0.3 \times 0.3}$
(3 marks)

(b) Simplify: $\frac{1}{4} - \frac{1}{4} + \frac{3}{4}$
(3 marks)

22. In a class of 40 pupils, 22 enjoy Maths (M), 24 enjoy English (E), y pupils like both while eight enjoy other subjects.

(a) Represent the above information on the venn diagram below.

$n(\varepsilon) = 40$



(3 marks)

(b) How many pupils enjoy both? *(2 marks)*

23. A costa carries 35 passengers when full to its capacity.

(a)
How many passengers will it transport in
16 trips? *(2 marks)*

(b) If the bus fare is shs. 7500 per person, how much money will the conductor collect per trip?
(2 marks)

24a) Sofia is 5 years younger than Amina. Their total age is 19 years. Find Amina's age. *(2 marks)*

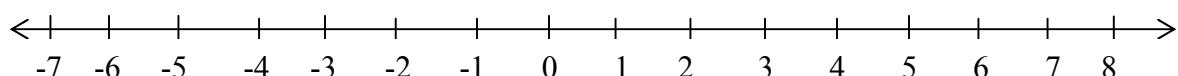
(b) Solve: $1\frac{1}{2}x - 7 = 8$

(3 marks)

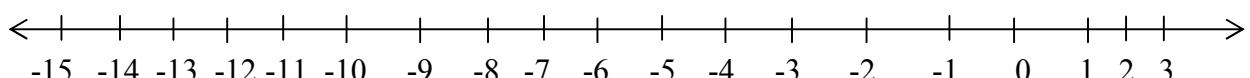
25. Use the number lines below to work out:

(2 marks each)

(a) ${}^-6 + {}^+8 = \underline{\hspace{2cm}}$



(b) ${}^+4 \times {}^-3 = \underline{\hspace{2cm}}$

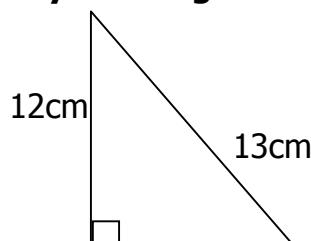


26. Using a ruler, a pencil and a pair of compasses only, construct a regular quadrilateral in a circle of radius 4cm. (5 marks)

27. Study the diagram below and answer the questions that follow.

(a) Find its area.

(3 marks)



(b) Find its perimeter.

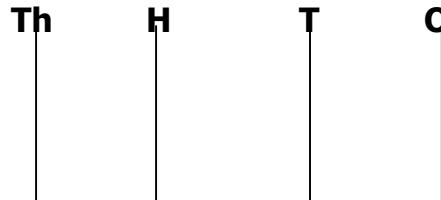
(2 marks)

28a) Find the sum of the place value of 3 and the value of 5 in the number 2503. *(2 marks)*

(b) Expand 78.25 using powers.
(1 mark)

(c) Show the number 4201 on the abacus below.

(2 marks)



29. Paul went to the market and bought the following items:-

1 $\frac{1}{2}$ kg of rice at sh. 3600 per kg.

3 bars of soap at sh. 4200.

500 grams of salt at sh. 1000 per kg.

2kg of sugar at sh. 3200 per kg.

(a) How much money did he spend altogether? *(4 marks)*

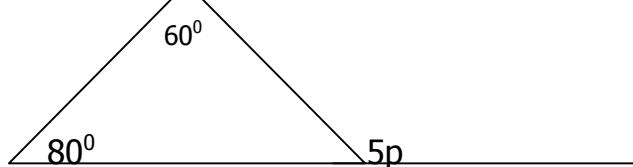
(b) If he went with sh. 20000, what was his balance after paying for all the items? *(1 mark)*

30a) If y^0 and 80^0 are co-interior angles on a parallel line, what is the value of y ?

(2 marks)

(b) Find the value of p in the figure below.

(2 marks)



31a) A school had 500 books in the library last year. This year the number has increased by 20%. How many books are in the library this year? (3 marks)

(b) Babra and Hope shared sh. 40000 in a ratio of 3:7 respectively. How much did each get? (3 marks)

32. A farmer divided his land as follows:- $\frac{6}{20}$ of the land for food crops, $\frac{1}{2}$ for cash crops and $\frac{1}{5}$ for pasture. Use the above information to draw an accurate pie chart. (6 marks)

Good Luck

SECTION A

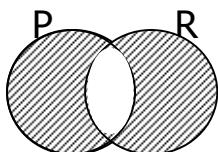
1. Work out 5 6
 - 3 0

2. Write in figures:
 Twenty nine thousand twenty nine

3. Given that $p = 2$ and $q = 3$. Find the value of $2p + 2q$,

4. Simplify: $\frac{2}{3} \times \frac{2}{5}$

5. Describe the shaded region.



6. Given the following numbers, 3, 6, 2, 4 and 5. Find their median.

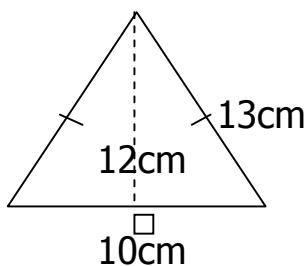
7. Using a ruler, a pencil and a pair of compasses only, construct an angle of 60° .

8. A forty-five minutes lesson started at 8:30 a.m. At what time did it end?

9. Find the next number in the sequence.

2, 3, 5, 7, _____

10. Work out the perimeter of the figure below.



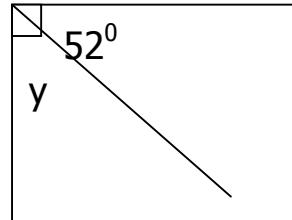
11. Work out: ${}^{\circ}6 + {}^{\circ}4$

12. Amos bought a shirt at sh. 30000 and sold it at sh. 38000. What was his profit?

13. If set $Q = \{2, 3\}$, list all subsets of set Q .

14. Find the LCM of 12 and 8.

15. Find the value of angle y .



16. If \bigcirc represents 12 people, how many people are represented by $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$

17. Solve: $3y = 45$

18. Write in short form.

$$(3 \times 100000) + (4 \times 1000) + (8 \times 100) + (5 \times 10)$$

19. Primary six class will have a party next week. Find the probability that the party will take place on a day that starts with letter 'T'.

20. Work out: $18 - (2 \times 6) \div 3$

SECTION B: (60 Marks)

21 a) Work out: $\frac{0.24 \times 0.3}{0.08}$

(3 marks)

(b) Simplify: $\frac{1}{2} + \frac{1}{4} - \frac{1}{5}$

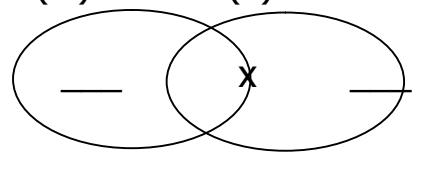
(3 marks)

22. In a class of 58 pupils, 30 pupils eat meat (M), 35 pupils eat Fish (F), x pupils eat both fish and meat and 2 pupils like neither.

- (a) Represent the information on the venn diagram.

$n(\varepsilon) = 58$ (3
marks)

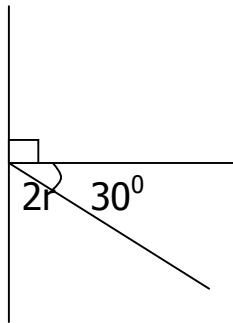
$n(M) = 30$ $n(F) = 35$



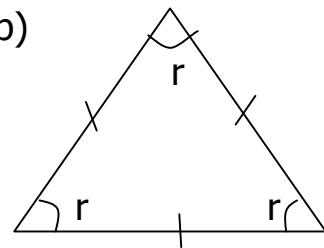
(b) How many pupils eat both meat and fish? *(2 marks)*

23. Find the value of the unknowns. *(2 marks each)*

a)



(b)



24. A boy scored the following marks in mid-term II examinations.

SST -	60
MTC -	40
Music-	60
English	85
Science	55

(a) Find the modal mark.
(1 mark)

(b) Find his range.
(2 marks)

(c) Find the average mark. *(2 marks)*

25a) Solve: $9x + 3 - x = 27$ *(2 marks)*

(b) Think of a number, subtract 17, the answer is 23. What is the number?
(2 marks)

26a) In a class of 96 pupils, $\frac{2}{3}$ are girls and the rest are boys. How many
boys are in the class? *(3 marks)*

(b) A piece of cloth 20 metres long is cut into small pieces of 0.4 metres.
How many pieces will be got? *(2 marks)*

27. Lakot went shopping and bought the following items;
2 kg of meat at sh. 10000 each kilogram
A bunch of matooke at shs. 10000
 $\frac{1}{2}$ kg of salt at shs. 800 per kg
2 kg of wheat flour at sh. 4600.

(a) What was her total expenditure? *(3 marks)*

(b) If she had a fifty thousand shilling note, how much was her balance? *(2 marks)*

28. Using a pencil, a ruler and a pair of compasses only, construct an equilateral triangle using a circle of radius 4cm.

(5 marks)

29a) The sum of 3 consecutive counting numbers is 24, find the numbers. (4 marks)

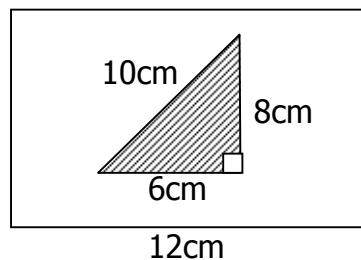
(b) Express XCIX in Hindu Arabic numerals. (2 marks)

30a) In a school of 2700 pupils, 1350 are girls, how many boys are in the school?

(2 marks)

(b) A lorry can carry 600 crates of soda. Each crate contains 24 bottles of soda. How many bottles does it carry? (2 marks)

31. **Study the figure below and use it to answer the questions that follow.**

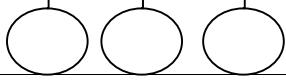


(a) Find the area of the shaded part. (2 marks)

(b) Calculate the area of the rectangle. *(2 marks)*

(c) Work out the area of the unshaded part. *(2 marks)*

32. The pictograph below shows different fruits collected by 3 pupils for Mathematics lesson. Study it and answer the questions that follow.

Wasswa	
Okot	
Mwine	

Scale:  represents 2 apples.

 represents 6 jackfruits.
 represents 4 melons.

(a) How many apples did Wasswa bring? *(2 marks)*

(b) Who brought most fruits? *(1 mark)*

(c) Find the total number of fruits brought. *(2 marks)*
Good Luck

SECTION A: (40 MARKS)

*Answer **all** questions in this section*

*Questions **1** to **20** carry two marks each*

1- Workout: 3 2 - 1 2

2- Express CDXCVI as Hindu Arabic numeral

3- Work out: $2\frac{1}{4} \div \frac{3}{4}$

4- Given that $Q = \{ p, e, n \}$, list all the proper subsets in Q .

5- Round off 7952 to the nearest hundreds.



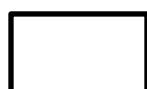
6- Write the number which has been expressed in scientific notation to give:
 5.26×10^3

7- In a class, the number of pupils increased to 45 pupils in the ratio of 3: 2.
Calculate the number of pupils in the class before.

8- Find the 12th triangular number.

9- Using a pair of compasses , ruler and a pencil only, construct an angle of 105°

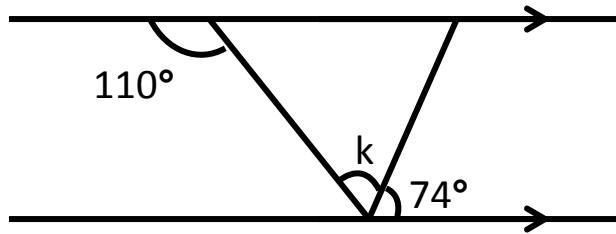
10- Find the next number in the sequence:
30, 29, 25, 16, _____



11- A trader bought 4.5 litres of milk and packed all the milk in 500 ml packets.
How many packets did the trader get from all the milk?

12- Express 10:35 a.m as a 24 hour clock system.

13- Find the value of k in the figure below.



14- A car covered a distance of 60km using a speed of 80 km/hr .
For how long did the car take to cover the journey?

15- The mean of 1, 4, 5, m and 7 is 4. Find the value of m

16-Subtract $w - 2$ from $3w + 1$

17-John bought 10 dozens of pens at sh.36,000. He sold each pen at sh.500.
Calculate the profit he made.

18-Today is Thursday, what day of week was 24 days ago from now?

19-Express 0.3... as a common fraction in its lowest form.

20-There were 25 pupils in a line. James was standing in the Pth position while counting from either sides of the line.
Find James' position in the line.



SECTION B :60 MARKS

*Answer **all** questions in this section*

Marks for each question are indicated in the brackets.

21- Two numbers **x** and **w** are in the ratio of 3:4 respectively .

If their Greatest Common Factor (GCF) is 3.

a) Find the value of **x** and **w**.

(02marks)

b) Find the Lowest Common Multiple (LCM) of **x** and **w**.

(02marks)

22-a) Study the abacus below carefully and use it to represent the number 32_{five}

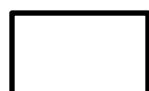
Tens Ones

(03marks)



b) Work out: $21_{\text{three}} \times 2$

(02marks)

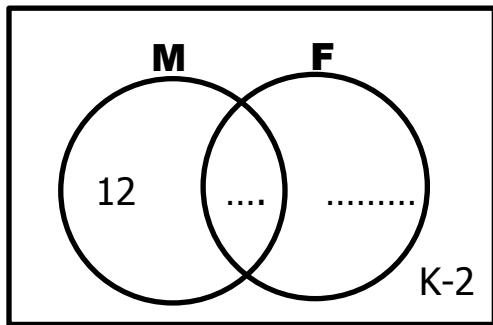


23- In a class, 12 pupils enjoy meat(M) only, $(k+3)$ enjoy both meat and fish, 2k – 1 enjoy fish (F) only while k -2 enjoy none of the two and 12 pupils enjoy meat complement.

(a) Use the information above to complete the venn diagram below.

(02marks)

$$n(\Sigma) = w$$



(b) Find the value of k .

(02marks)

24- a) Simplify: $\frac{0.36 - 0.24}{0.06}$

(02marks)

b) Work out: $24 \div \frac{2}{3}$ of 12

(02marks)



25-a) Solve for m: $5m - 3(m + 1) = 5$

(03marks)

b) Solve the inequality $6 - 2k > 10$ and find the solution set. **(03marks)**

26- The table below shows the rate at which different currencies were bought and sold at a certain forex bureau .Use it to answer the questions that follow.

Currency	Buying in Ug.sh	Selling in Ug.sh
1 US dollar(\$)	3500	3900
1 Euro(£)	3700	4000
1 Kenya shilling	20	28

a) Akello had Ug.sh.1,950,000 and exchanged it for United States dollars.
How many United States dollars did she get? **(02marks)**

b) Ronald had 200 US dollars. He bought a smart phone in Euros.
Calculate the cost of the phone in Euros. **(03marks)**



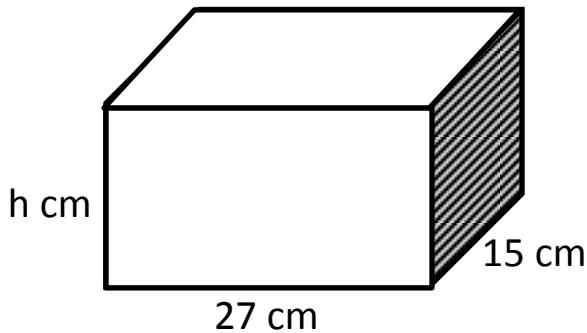
27-In a village, 60% of the people are males and the rest are females.

If $\frac{1}{3}$ of the males are men and 50% of the females are girls.

Calculate the total number of people in the village if the village has 120 children.

(05marks)

28-The diagram below shows a rectangular box made by Joram using a wire of total length 224 cm .



a) Find its height.

(03 marks)

b) Find the area of the face which is shaded.

(02 marks)

29-a) During a quiz competition, a secretary awarded 5 points for every correct response and deducted 2 points for every wrong response. The questions asked were ten ,if Sandrah scored 36 points, how many questions did she give a wrong response ?

(03 marks)

b) If Micheal gave 4 correct responses, how many points was he given?

(02 marks)

30-The table below shows the arrival and departure time for a bus moving from Mbale to Kampala.

Town	Arrival	Departure
Mbale		08 40 hrs
Iganga	10 00 hrs	10 20 hrs
Jinja	11 20 hrs	11 50 hrs
Mukono	13 20 hrs	14 00 hrs
Kampala	17 20 hrs	

a) How long did the bus take to travel from Iganga to Mukono?

(01 mark)

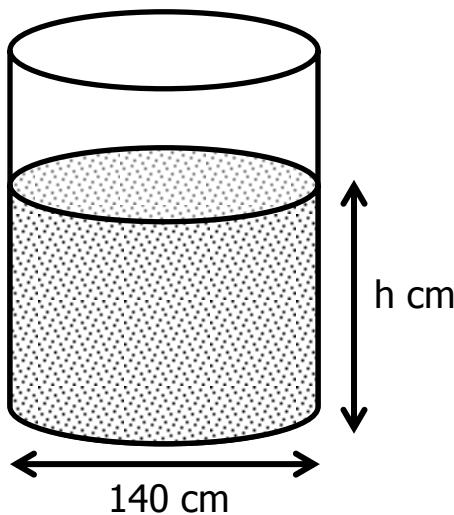
b) At what time did the bus reach Kampala in the 12 hour clock system?

(01 mark)

c) If the distance from Mbale to Kampala is 520 km, calculate the average speed of the bus for the whole journey.

(03 marks)

31-Study the cylindrical tank below carefully and use it to answer the questions that follow.



If the tank is $\frac{3}{4}$ full of water and 770 litres of water are needed to fill it to its full capacity. Find the height of water in the tank.

(05 marks)

32- The Shop is Southwest of Sarah's Home at a distance of 25 metres.

The School is 35 metres away from the Shop on a bearing of 120° .

a) Draw a sketch diagram and show the three places. **(01mark)**

b) Using a scale of 1cm to represent 5 metres, draw an accurate diagram for the three places. **(04marks)**

c) Find the shortest distance in metres from Home to the School. **(01marks)**

END



SECTION A

1. Simplify: **8m + n + m**

2. Express 97 as Roman Numerals

3. Work out $\frac{5}{6} + \frac{1}{3}$

4. Given that **a = -2**, **b = 3** and **c = 4**. Find the value of **b(a² + c)**.

5. Given that $W = \{c, o, m, p, a\} = \{m, o, p, e, l\}$. List all the subsets in $W \cap M$.

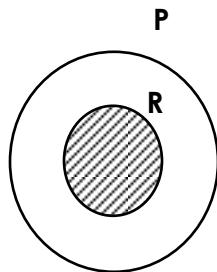
6. Write 369,046 in words.

.....
.....

7. The cost of one book is sh. 400. Find the cost of 3 dozen of books.

8. Using a ruler and a pair of compasses only, construct an angle of 30° .

9. Describe the unshaded part in the Venn diagram below.



10. The complement of $2r - 20^{\circ}$ is 40° . Find the size of the larger angle.

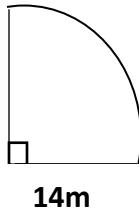
11. Work out: $-4 - +5$

12. Find the median of 24, 16, 25, 33, 20 and 15.

Turn over

13. The sum of two numbers is 7 and their difference is 1. Find the two numbers.

14. Find the distance around the figure below.

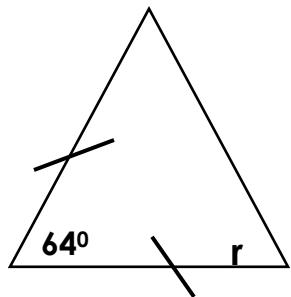


Take pie as $\frac{31}{7}$

15. Ann had 12 pens she gave 4 of them to her friends. Later the mother gave her 2 more pens, then Ann shared the pens equally between 2 pupils. How many pens did each pupil get?

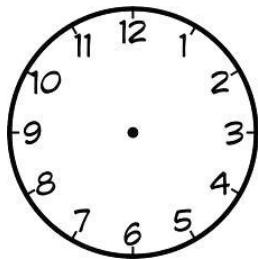
Turn over

16. Find the value of r in the figure below.



17. Express 5400 square meters as hectares.

18. Use the clock face below to show a quarter to 5 O'clock.



19. Otim used 15 litres of oil. This was $\frac{1}{3}$ of what he had. How many litres of oil did he have at first?

Turn over

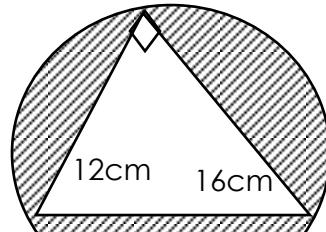
20. A meeting started at 12:20pm and ended at 4:30pm. How long was the meeting?

SECTION B: 60 MARKS

Answer all the questions in this section.

Marks for each question are indicated in brackets.

21. The diagram below is made up of a semicircle and right angled triangle. Use it to answer the questions that follow.



a) Find the length of the diameter of the semicircle.

(02marks)

Turn over

b) Calculate the perimeter of the shaded part. (Take π as 3.14)
(03marks)

22. a) Write 523.4 in standard form. (02marks)

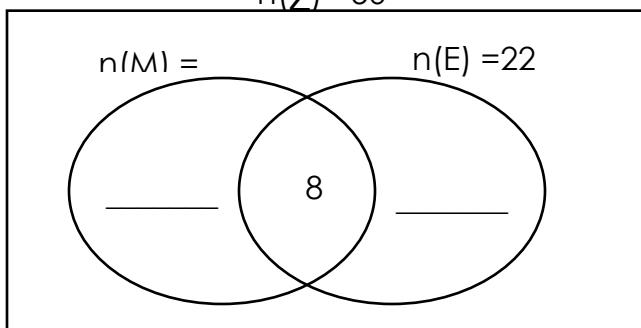
b) Solve: $2^n \times 8 = 64$ (03marks)

23. In a class of 50 pupils, 8 pupils passed both Maths and English, 22 passed English, $(y + 8)$ pupils passed Maths only while $(y - 2)$ passed neither.

a) Use the above information to complete the venn diagram below.

$$n(\Sigma) = 50$$

(03marks)



b) Find how many pupils passed Mathematics.

(03marks)

Turn over

24. The table below shows number of pupils in a P7 class who were absent during the week. Use it to answer the questions that follow.

Day	Monday	Tuesday	Wednesday	Thursday	Friday
Number of pupils	10	5	20	15	10

a) If health workers visited the school for vaccination, which day had more pupils vaccinated? (01mark)

b) If the class had a total of 70 pupils, find the average number of pupils who attended that week. (03marks)

25. At a certain school, $\frac{5}{8}$ are girls? One day, all boys came to school and $\frac{4}{5}$ of the girls were absent.

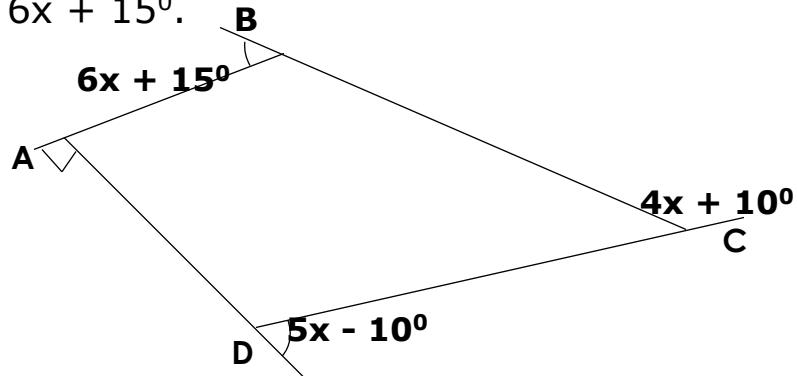
a) What fraction of the school was present? (03marks)

b) If 200 pupils were present that day, what is the enrolment of the school?

(02marks)

Turn over

26. The exterior angles of the given figure are 90° , $3x + 10^\circ$, $5x - 50$ and $6x + 15^\circ$.



a) Find the value of X. (03marks)

b) What is the size of angle BCD? (02marks)

27. Mutesi went for shopping and bought the following;

2 bars of soap for sh. 13,000 (01mark)

3kgs of sugar for sh. 4,500 per kg

6 apples at sh. 2500 for 3 apples

a) Find the cost of apples.

b) Work out the total cost of all the items.

(02marks)

c) If Mutesa has sh. 50,000, what was her change? (02marks)

Turn over

28. a) A water melon weighs 17kg. A mother cut it into three pieces. When she weighted the pieces, one piece weighs 2kg lighter than the largest piece and 6kg heavier than the smallest piece. Find the mass of the smallest piece. (03marks)

b) Solve: $-3p < 12$

Turn over

29. a) Using a pair of compasses, a ruler and a pencil only, construct a quadrilateral ABCD where AB = 3.6cm, BC = 5.1CM, CD = 4.8cm and AD = 3CM.

b) Measure diagonal AC.

30. a) Work out: $\frac{2.2 \times 0.45}{0.5 \times 0.6}$ (03marks)

Turn over

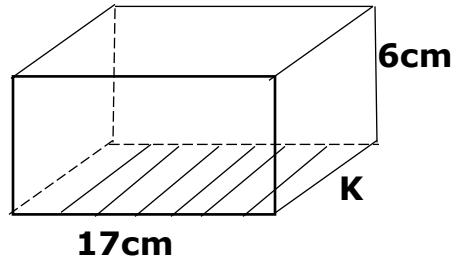
b) Change $\frac{3}{5}$ to decimal number. (02marks)

31. A motorist drove for 3 hours at an average speed of 90km/h.
he then travelled at an average speed of 70km/h for 2hours.

a) Find the average speed of the motorist for whole journey.
(03marks)

b) If one litre of fuel covers 20km, how many fuel did the
motorist use for the first journey? (02marks)

32. The volume of the cuboid below is **918cm³**. Find the area of the shaded part. (05marks)

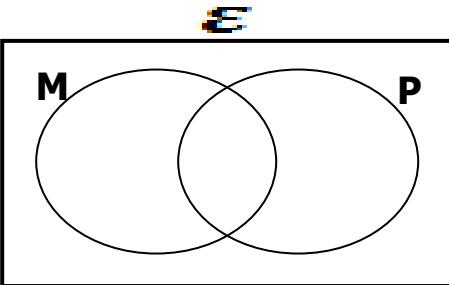
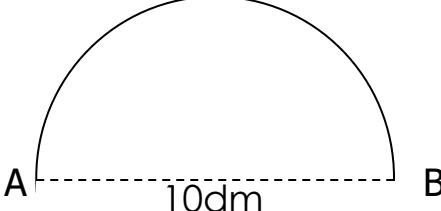


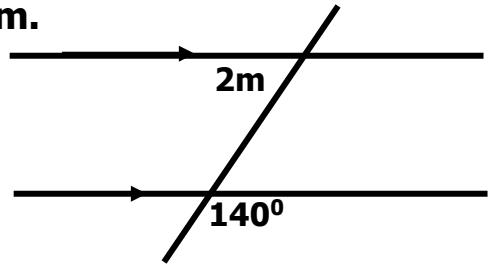
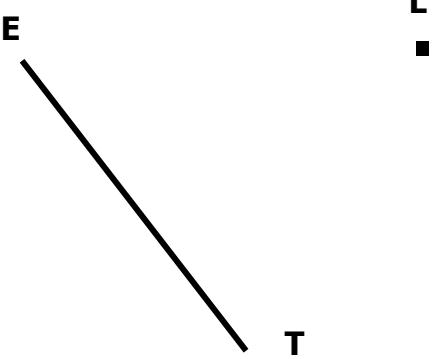
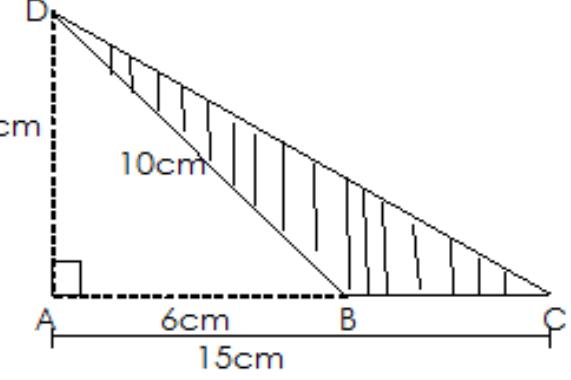
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Turn over

SECTION A

paper 9

1	Work out: $\begin{array}{r} 1 \ 2 \ 4 \\ - 1 \ 8 \\ \hline \end{array}$	2	Write 55,012 in words.
3	Shade $(M \cap P)^I$ in the figure below; 	4	Find the next numbers in the sequence below; $1, 4, 2, 5, 3, \underline{\quad}, \underline{\quad}.$
5	A trader bought $1\frac{1}{2}$ dozen of books and sold each at sh. 2000 making a profit of sh. 4000. Find the cost price of all the books.	6	Find the length of the arc AB in the figure below: (Take $\pi = 3.14$) 
7	Find the square root of $3\frac{1}{16}$.	8	Solve for k: $2k - 5 = 13$
9	Name the regular polygon whose interior angle is 135° .	10	Round off 45.37 to the nearest whole number.

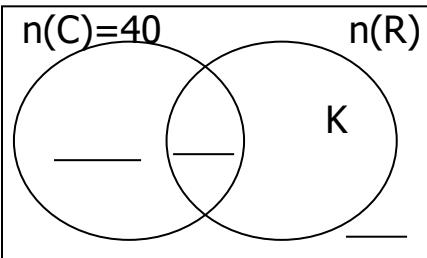
11 In the figure below find the value of m .	12 Express 0025 hours in 12hr clock system.
	<p>In the diagram below, drop a perpendicular from L to meet line segment ET at point B.</p> 
13 In a box, there are 63 blue and red pens. The probability of picking a blue pen is $\frac{3}{7}$. How many red pens are in the box?	14 A lady borrowed sh. 180,000 from a village savings account at an interest rate of 10% per month. How much money did she pay back after 6 months? <p>15 Find the area of the shaded part in the figure below If AB = 6cm and AC = 15cm.</p> 

17	The bearing of town P from town Q is 200° . What is the bearing of town Q from P?	18	How many $\frac{1}{4}$ kg packets can be used to pack 12kg of sugar?
19	Using tallies, change 18_{ten} to base five.	20	Express 200 metres as a ratio of one kilometer.



SECTION B (60 MARKS)

21	The previous electricity metre reading at Kato's meter box was taken as 08476 . The new metre reading is 08511 .		
a	How many units of electricity did Kato consume? (2 Marks)	b	If the cost of each unit is sh. 800, calculate the amount of money to be paid by Kato if VAT of 18% is levied on the total cost. (2 Marks)
22	<p>In a certain village, 40 farmers rear cows (C), K farmers rear rabbits (R) only, K + 2 farmers rear both cows and rabbits while 2K rear neither rabbits nor cows.</p> <p>a). Use the above information to complete the Venn diagram below correctly</p>		



b

If 30 farmers don't rear cows, how many farmers are in the whole village?

(3 Marks)

(2 Marks)

23 The table below shows the marks scored by P.6 pupils in a certain test.

Marks scored	55	70	40	80
No. of pupils	x	4	3	1

a If 5 pupils score below 70, how many pupils sat for the test altogether?

(2 Marks)

b Work out the mean.

(2 Marks)

c What was the modal frequency?

(1 Mark)

24 a) A mother is thrice as old as her son. In five years' time, the ratio of the mother's age to the son's age will be 7:3 respectively. How old is each of them now?

(4 Marks)

b) Solve the inequality: $-6 \geq -3p > -9$ and give the solution set.

(2 Marks)

- 25 The time table below shows how a bus moved from town P to S through different towns as shown in the table. Study it carefully and use it to answer questions that follow.

Town	Arrival	Departure
P		1000hrs
Q	1030hrs	1045hrs
R	1130hrs	1210hrs
S	1330hrs	

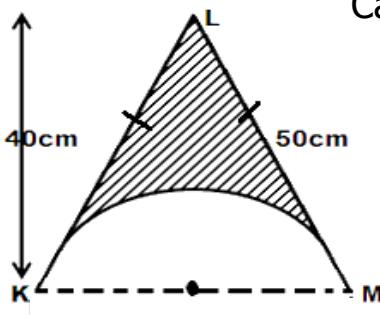
- a For how long did the bus take to move from town Q to town R? **(1 Mark)**
- b Change the arrival time at town S in 12hr clock time. **(2 Marks)**

- c If the distance from town P to town S is 210km, calculate the average speed of the bus for the whole journey. **(2 Marks)**

26 The figure below shows a triangular card with a semi-circular part cut off.

Calculate the area of the shaded part (take $\pi = \frac{22}{7}$)

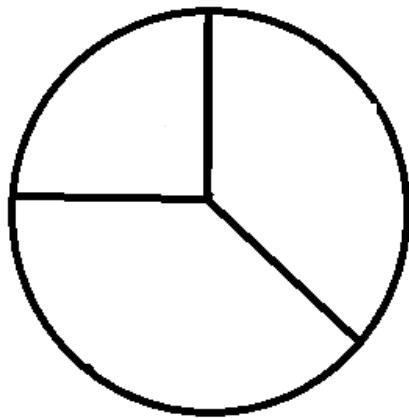
(5marks)



27 The pie-chart below shows a man's monthly expenditure.

(a) Find the value of y

(2 Marks)

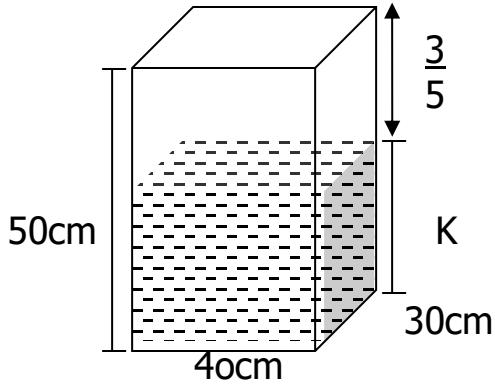


b Given that he spends shs.120,000 more on savings than rent, Calculate his monthly salary.

(3 Marks)

- 28 The tank below holds water to a certain level. Study it carefully and use it to answer the questions that follow.

a) Find the value of K. **(3 Marks)**



- b) Find the amount of water needed to fill the tank in litres. **(3 Marks)**

- 29 A boy's stride is 50cm long. He makes 100 strides in only one minute.

a) How long does he take to walk a distance of 4km?

(3 Marks)

b) Calculate the boy's average speed for the whole journey.

(2 Marks)

30 Below are the exchange rates at Bamboo forex bureau. Study it carefully.

Currency	Buying rates	Selling rates
US\$	Ugsh. 3500	Ugsh. 3600
Ksh 1	Ugsh29	Ugsh30
1 British pound	Ugsh 4100	Ugsh 4200

a A trader had Ugsh. 504,000 which he exchanged for British pounds. How many pounds did he get? (2 Marks)

b

If a radio costs Us\$600, Find the cost of the same radio in Kenya shillings.

(3 Marks)



- 31 Using a ruler, pencil and pair of compasses only, construct a parallelogram ABCD where AB= 6cm, angle DAB = 120° and AD = 4cm. Drop a perpendicular line from C to meet AB at X. **(5 Marks)**

- 32 A fruit vendor bought some oranges from a village fruit farmer. When she grouped them in heaps of 8, 5 oranges remained, when she put them in heaps of 7, only one orange remained and when she grouped them in heaps of 6, 5 oranges were left. How many oranges did the vendor buy from the farmer? **(5 Marks)**

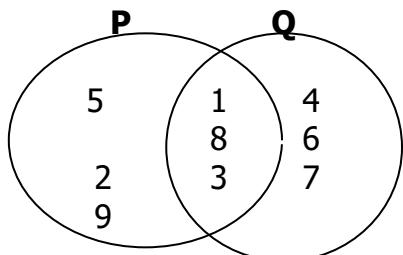


END

SECTION A: (40 MARKS)

1. Work out: $\frac{1}{2} \times \frac{1}{6}$

2. Use the Venn diagram below to find the complement of set P.

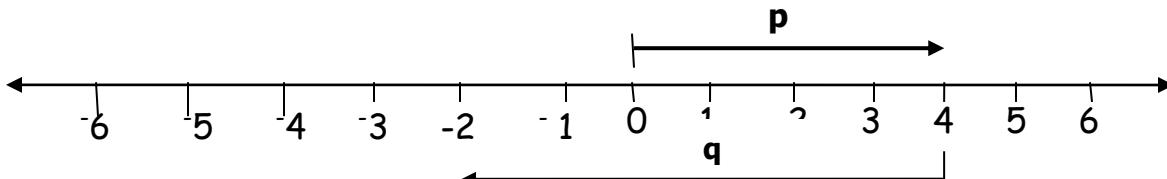


3. Write 55, 555 in words.

4. If represents 400 people,
how many people are represented by



8. Write the integers represented by letters P and Q on the number line.



$p =$ _____

$q =$ _____

5. Simplify: $9p + 7q - 4p + 3q$

6. Find the difference between the third and the tenth whole numbers.

7. Murungi's cow gives 9700 milliliters of milk every day. Express its production in litres.

9. Mukisa bought a shirt at 15 Euros. How much is this in Uganda shillings, If 1 Euro is equivalent to 4090 Uganda shillings ?

10. Subtract: **Wks** **Days**

$$\begin{array}{r} - \quad 5 \quad \quad 3 \\ \underline{2} \quad \quad 6 \\ \hline \end{array}$$

11. Work out: $14 - 12 + 6$.

12. Using a ruler, a pencil and a pair of compasses only, construct a circle of diameter 6cm.

13. Use the prime factorization method to find the square root of 196.

14. Solve: $2x + 3x + 4 = 29$.

15. Write CCXLIX as a Hindu – Arabic numeral.

16. 4 people can do a piece of work in 5 days. How many days will 10 people take to do the same piece of work?

17. Divide: 2424 by 6.

18. Find the L.C.M of 18 and 12.

20. If $P = \{ a, b, c, d \}$, Find the number of subsets in set P.

19. What is the larger angle between East and South West?

SECTION B: (60 Marks)

21. The table shows Kityo's shopping bill.

Item	Quantity	Unit cost	Total
Blue Band	$\frac{1}{2}$ kg	Sh. 10000 a kg	Sh. 5000.
Bread	_____loaves	4000 a loaf	Sh. 8000.
Tea leaves	$\frac{1}{4}$ kg	_____	Sh. 1500
Sugar	2kg	Sh.4500 a kg	_____
Total			_____

(a) Complete the shopping bill showing all the working. (1 mark each)

(b) If he remained with sh. 6500 after buying all the items in the shopping bill, how much did he go with? *(2 marks)*

22 (a) Given that $p = 3$, $q = 4$ and $r = 6$. Find the value of $\frac{pq}{r}$. *(2 marks)*

(b) I think of a number, multiply it by 10, the answer is 80. Find the number. *(2 marks)*

(c) Solve: $3y + 2 - y = 10$. *(2 marks)*

23. Using a ruler, a pencil and a pair of compasses only, construct a rectangle PQRS in which PQ = 8cm and QR = 6cm. (5 marks)

24 Mary started a journey of 120km at 8:30 a.m and ended it at 10:00 a.m.

a) Find his average speed in km/hr. (3 marks)

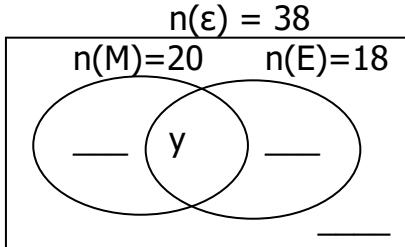
(b) Express 54km /hr to metres / second. (2 marks)

25a) Simplify: $\frac{4}{5} \times \frac{1}{6} \div \frac{2}{3}$ (2 marks)

(b) Work out: $\frac{0.24 \times 0.3}{0.08}$ (2 marks)

26. In a class of 38 pupils, 20 like Maths (M), 18 like English (E), 2 does not like any of the two subjects but some (y) pupils like both subjects.

(a) Show this information on a Venn diagram below. (3 marks)



(b) How many like both subjects? (2 marks)

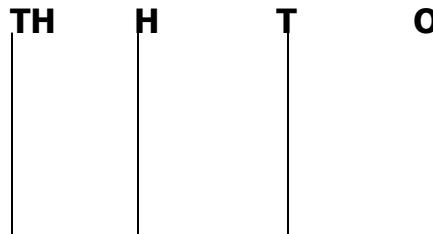
27. Madinah scored the following marks in the Maths weekly tests: 80, 72, 68, 70 and 60.

(a) Calculate her average score. (2 marks)

(b) An average of 6 chairs per table were prepared for guests at a party. If there were 234 tables, find the total number of chairs prepared. (2 marks)

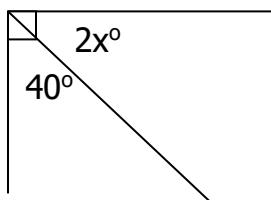
28. (a) Round off 89.79 to the nearest whole number. (1 mark)

(b) Draw beads to show the number 4312 on the abacus below. (2 marks)

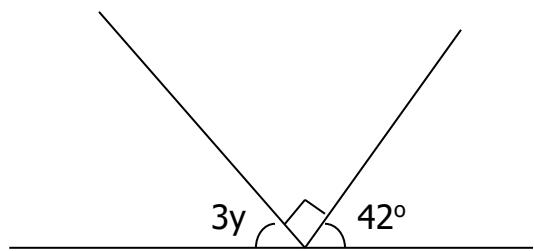


(c) Write 9483 in expanded form using values. (2 marks)

29 (a) Find the value of x . (2 marks)



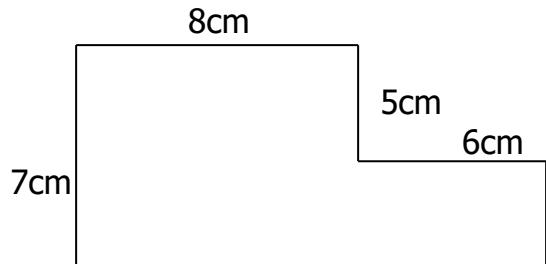
(b) Find the value of y . (2 marks)



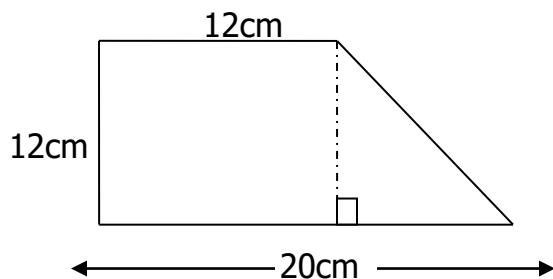
(c) How many lines of symmetry has the figure below. (2 marks)



30 (a) Calculate the Perimeter of the figure below. (3 marks)



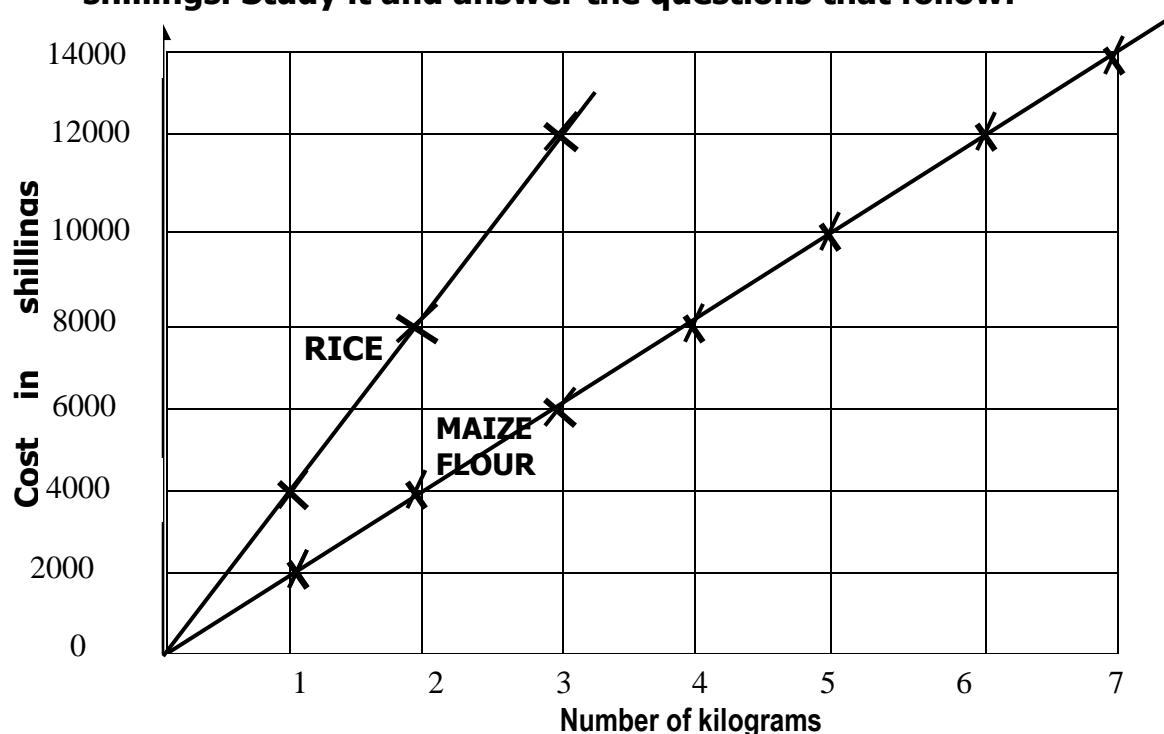
(b) Find the area of the figure below. (3 marks)



31(a) Okello's daily income was sh. 20000. It is decreased in a ratio of 3:4. What is his new income? (2 marks)

(b) Find the simple interest on sh. 500.000 borrowed for 6 months at 18% per annum. (2 marks)

32. The graph below shows the cost of Rice and that of maize flour in shillings. Study it and answer the questions that follow.



(a) What is the cost of 1 kg of rice? (1mark)

(c) How many kg of maize flour can one buy with sh.8000? (1mark)

(b) What is the cost of $1\frac{1}{2}$ kg of maize flour? (1mark)

(d) Mulindwa has sh. 12000, how many kg of Rice did he buy? (1mark)